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DATE MAILED: 11/15/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/707,121	11/21/2003	Ram Kelkar	BUR920030134US1	1120	
30449 7:	590 11/15/2004		EXAMINER		
SCHMEISER, OLSEN + WATTS			LE, DINH THANH		
SUITE 201 3 LEAR JET			ART UNIT	PAPER NUMBER	
LATHAM, NY 12033			2816		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application P	lo. A	pplicant(s)				
Office Action Summary		10/707,121	K	KELKAR ET AL.				
		Examiner	A	rt Unit				
		DINH T. LE		816	pr-			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) data period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, hation. ys, a reply within the statutory y period will apply and will export statute, cause the application	nowever, may a reply be timely minimum of thirty (30) days will bire SIX (6) MONTHS from the on to become ABANDONED (3	filed Il be considered timely mailing date of this co 35 U.S.C. § 133).				
Status								
1)	Responsive to communication(s) filed o	n						
2a)□	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-24 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
9)☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen 1) Notice	t(s) te of References Cited (PTO-892)	4)	☐ Interview Summary (PT	ГО-413)				
2) Notice 3) Information	te of Draftsperson's Patent Drawing Review (PTO-mation Disclosure Statement(s) (PTO-1449 or PTC or No(s)/Mail Date	o/SB/08) 5)	Paper No(s)/Mail Date. Notice of Informal Pate Other:	·	-152)			

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the recitation "adjustable gain" recited in claims 4-5 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Specification

The specification has been checked to the extent necessary to determine the presence of all possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 6-8, 10-15, 18-20 and 22-24 are rejected under 35 USC 102 (e) as being anticipated by Bisanti et al (US 6,600,351).

Bisanti et al discloses in Figure 5 a PLL circuit comprising:

- a first charge pump circuit (508);
- a second charge pump circuit (510);
- a loop filter having a first capacitor (56pF);
- a resistor (60K) connected to a second capacitor (150pF);

wherein the second charge pump coupled in parallel with the second capacitor (150pF) to function as a current source so that it collectively vary an effective capacitance value of the second capacitor (150pF).

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With regard to claims 2-3, 8, 9, 14-15, 20 and 22, the bandwidth, the damping factor and the noise signals of the PLL circuit are varied since the second charge pump (510) varies the effective capacitance of the second capacitor (150pF).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-5, 9, 16-17 and 21 are rejected under 35 USC 103 (a) as being unpatentable over Bisanti et al (US 6,600,351) in view of Williams et al (US 6,377,091).

Bisanti et al discloses in Figure 5 a PLL circuit comprising all of the limitations of the claimed invention as discussed above but does not disclose that the charge pump has adjustable gain. Williams et al teaches in Figure 3 a PLL circuit comprising a charge pump (314) which has an adjustable gain for adjusting the gain of the PLL. It would have been obvious to a person having skill in the art at the time the invention was made to employ a charge pump circuit having an adjustable gain as taught by Williams et al in the PLL circuit of Bisanti et al for the purpose of adjusting the overall gain of the PLL.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY CALLAHAN can be reached at (571) 272-1740.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DINHIF

Primary Examiner

November 12, 2004